SEQLIST.TXT

SEQUENCE LISTING

```
<110> Novartis AG
       McCullough, Karen
       Ide, Susan
       Lavedan, Christian
<120> USE OF GENETIC POLYMORPHISMS THAT
  ASSOCIATE WITH EFFICACY OF TREATMENT OF INFLAMMATORY DISEASE
<130> DV/4-33389A
<150> 60/508,971
<151> 2003-10-06
<160> 22
<170> FastSEQ for Windows Version 4.0
<210> 1
<211> 53
<212> DNA
<213> Homo sapiens
<220>
<221> variation
<222> (1)...(53)
<223> TNF locus variant (T at position -1031)
<221> variation
<222> (23)...(0)
<223> T
agcaaaggag aagctgagaa gatgaaggaa aagtcagggt ctggaggggc ggg
                                                                                53
<211> 53
<212> DNA
<213> Homo sapiens
<220>
<221> variation
<222> (1)...(53)
<223> TNF locus variant (C at position -1031)
<221> variation
<222> (23)...(0)
<223> C
agcaaaggag aagctgagaa gacgaaggaa aagtcagggt ctggaggggc ggg
                                                                                 53
 <210> 3
 <211> 48
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> variation
 <222> (1)...(48)
<223> LTA locus variant (C)
 <221> variation
 <222> (20)...(0)
<223> C
```

PCT/EP2004/011124

SEQLIST.TXT

```
<400> 3
                                                                                 48
gtgagcagca ggtttgaggc tgctgtgggc aagatgcatc ttggggtg
<210> 4
<211> 48
<212> DNA
<213> Homo sapiens
<220>
<221> variation
<222> (1)...(48)
<223> LTA locus variant (A; ASN60THR)
<221> variation
<222> (20)...(0)
<223> A
<400> 4
gtgagcagca ggtttgagga tgctgtgggc aagatgcatc ttggggtg
                                                                                 48
<210> 5
<211> 50
<212> DNA
<213> Homo sapiens
<220>
<221> variation
<222> (1)...(50)
<223> CCR2 locus variant (G)
<221> variation
<222> (10)...(0)
<223> G
<400> 5
                                                                                 50
atgctggtcg tcctcatctt aataaactgc aaaaagctga agtgcttgac
<211> 50
<212> DNA
<213> Homo sapiens
<220>
<221> variation
<222> (1)...(50)
<223> CCR2 locus variant (A; VAL64ILE)
<221> variation
<222> (10)...(0)
<223> A
atgctggtca tcctcatctt aataaactgc aaaaagctga agtgcttgac
                                                                                 50
<210> 7
<211> 702
 <212> DNA
 <213> Homo sapiens
<220>
 <221> CDS
<222> (1)...(702)
<223> Tumor necrosis factor alpha (TNFalpha) mRNA
        coding region
<400> 7
atg agc act gaa agc atg atc cgg gac gtg gag ctg gcc gag gag gcg
                                                                                 48
                                              Page 2
```

PCT/EP2004/011124 WO 2005/040416

								c	EQLI	ст т	VΤ					
Met 1	ser	Thr	Glu	ser 5	Met	Ile	Arg	Asp	Val 10	Glu	Leu	Аlа	Glu	Glu 15	Аlа	
ctc Leu	ccc Pro	aag Lys	aag Lys 20	aca Thr	ggg Gly	ggg Gly	ccc Pro	cag Gln 25	ggc Gly	tcc Ser	agg Arg	cgg Arg	tgc Cys 30	ttg Leu	ttc Phe	96
ctc Leu	agc Ser	ctc Leu 35	ttc Phe	tcc Ser	ttc Phe	ctg Leu	atc Ile 40	gtg Val	gca Ala	ggc Gly	gcc Ala	acc Thr 45	acg Thr	ctc Leu	ttc Phe	144
tgc Cys	ctg Leu 50	ctg Leu	cac His	ttt Phe	gga Gly	gtg Val 55	atc Ile	ggc Gly	ccc Pro	cag Gln	agg Arg 60	gaa Glu	gag Glu	ttc Phe	CCC Pro	192
agg Arg 65	gac Asp	ctc Leu	tct Ser	cta Leu	atc Ile 70	agc Ser	cct Pro	ctg Leu	gcc Ala	cag Gln 75	gca Ala	gtc Val	aga Arg	tca Ser	tct Ser 80	240
tct Ser	cga Arg	acc Thr	ccg Pro	agt ser 85	gac Asp	aag Lys	cct Pro	gta Val	gcc Ala 90	cat His	gtt Val	gta Val	gca Ala	aac Asn 95	cct Pro	288
caa Gln	gct Ala	gag Glu	ggg Gly 100	cag Gln	ctc Leu	cag Gln	tgg Trp	ctg Leu 105	aac Asn	cgc Arg	cgg Arg	gcc Ala	aat Asn 110	gcc Ala	ctc Leu	336
ctg Leu	gcc Ala	aat Asn 115	ggc Gly	gtg Val	gag Glu	ctg Leu	aga Arg 120	gat Asp	aac Asn	cag Gln	ctg Leu	gtg Val 125	gtg Val	cca Pro	tca Ser	384
gag Glu	ggc Gly 130	ctg Leu	tac Tyr	ctc Leu	atc Ile	tac Tyr 135	tcc Ser	cag Gln	gtc Val	ctc Leu	ttc Phe 140	aag Lys	ggc Gly	caa Gln	ggc Gly	432
tgc Cys 145	ccc Pro	tcc Ser	acc Thr	cat His	gtg Val 150	ctc Leu	ctc Leu	acc Thr	cac His	acc Thr 155	atc Ile	agc Ser	cgc Arg	atc Ile	gcc Ala 160	480
gtc Val	tcc Ser	tac Tyr	cag Gln	acc Thr 165	aag Lys	gtc Val	aac Asn	ctc Leu	ctc Leu 170	tct Ser	gcc Ala	atc Ile	aag Lys	agc Ser 175	ccc Pro	528
tgc Cys	cag Gln	agg Arg	gag Glu 180	acc Thr	cca Pro	gag Glu	ggg Gly	gct Ala 185	gag Glu	gcc Ala	aag Lys	ccc Pro	tgg Trp 190	tat Tyr	gag Glu	576
ccc Pro	atc Ile	tat Tyr 195	ctg Leu	gga Gly	ggg Gly	gtc Val	ttc Phe 200	cag Gln	ctg Leu	gag Glu	aag Lys	ggt Gly 205	gac Asp	cga Arg	ctc Leu	624
agc Ser	gct Ala 210	gag Glu	atc Ile	aat Asn	cgg Arg	ccc Pro 215	gac Asp	tat Tyr	ctc Leu	gac Asp	ttt Phe 220	gcc Ala	gag Glu	tct Ser	ggg Gly	672
cag Gln 225	gtc Val	tac Tyr	ttt Phe	ggg Gly	atc Ile 230	att Ile	gcc Ala	ctg Leu	tga *							702

<210> 8 <211> 233 <212> PRT <213> Homo sapiens

<400> 8 Met Ser Thr Glu Ser Met Ile Arg Asp Val Glu Leu Ala Glu Glu Ala 1 5 10 15 Page 3

SEQLIST.TXT Leu Pro Lys Lys Thr Gly Gly Pro Gln Gly Ser Arg Arg Cys Leu Phe Leu Ser Leu Phe Ser Phe Leu Ile Val Ala Gly Ala Thr Thr Leu Phe 35 40 45 Cys Leu Leu His Phe Gly Val Ile Gly Pro Gln Arg Glu Glu Phe Pro 50 _ 60 Arg Asp Leu Ser Leu Ile Ser Pro Leu Ala Gln Ala Val Arg Ser Ser 80 70 Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val Val Ala Asn Pro 85 90 Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg Ala Asn Ala Leu 100 105 110 Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu Val Val Pro Ser 115 120 125 115 Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Lys Gly Gln Gly 130 140 Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala 145 150 155 160 Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala Ile Lys Ser Pro 175 170 165 Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu 180 185 190 Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys Gly Asp Arg Leu
195 200 205 Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Gly 215 220 210 Gln Val Tyr Phe Gly Ile Ile Ala Leu <210> 9 <211> 1793 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (74)...(1201) <223> beta-actin expression (ACTB) mRNA coding region <400> 9 cgcgtccgcc ccgcgagcac agagcctcgc ctttgccgat ccgccgcccg tccacacccg 60 ccgccagctc acc atg gat gat gat atc gcc gcg ctc gtc gtc gac aac Met Asp Asp Ile Ala Ala Leu Val Val Asp Asp 109 ggc tcc ggc atg tgc aag gcc ggc ttc gcg ggc gac gat gcc ccc cgg Gly Ser Gly Met Cys Lys Ala Gly Phe Ala Gly Asp Asp Ala Pro Arg 15 20 25 157 gcc gtc ttc ccc tcc atc gtg ggg cgc ccc agg cac cag ggc gtg atg Ala Val Phe Pro Ser Ile Val Gly Arg Pro Arg His Gln Gly Val Met 205 gtg ggc atg ggt cag aag gat tcc tat gtg ggc gac gag gcc cag agc Val Gly Met Gly Gln Lys Asp Ser Tyr Val Gly Asp Glu Ala Gln Ser 45 50 55 60 253 aag aga ggc atc ctc acc ctg aag tac ccc atc gag cac ggc atc gtc Lys Arg Gly Ile Leu Thr Leu Lys Tyr Pro Ile Glu His Gly Ile Val 301 acc aac tgg gac gac atg gag aaa atc tgg cac cac acc ttc tac aat Thr Asn Trp Asp Asp Met Glu Lys Ile Trp His His Thr Phe Tyr Asn 349 90 gag ctg cgt gtg gct ccc gag gag cac ccc gtg ctg ctg acc gag gcc Glu Leu Arg Val Ala Pro Glu Glu His Pro Val Leu Leu Thr Glu Ala 397

	95 SEQLIST.TXT							хT	105							
ccc Pro	ctg Leu 110	aac Asn	ccc Pro	aag Lys	gcc Ala	aac Asn 115	cgc Arg	gag Glu	aag Lys	atg Met	acc Thr 120	cag Gln	atc Ile	atg Met	ttt Phe	445
gag Glu 125	acc Thr	ttc Phe	aac Asn	acc Thr	cca Pro 130	gcc Ala	atg Met	tac Tyr	gtt Val	gct Ala 135	atc Ile	cag Gln	gct Ala	gtg Val	cta Leu 140	493
tcc Ser	ctg Leu	tac Tyr	gcc Ala	tct Ser 145	ggc Gly	cgt Arg	acc Thr	act Thr	ggc Gly 150	atc Ile	gtg Val	atg Met	gac Asp	tcc Ser 155	ggt Gly	541
gac Asp	ggg Gly	gtc Val	acc Thr 160	cac His	act Thr	gtg Val	ccc Pro	atc Ile 165	tac Tyr	gag Glu	ggg Gly	tat Tyr	gcc Ala 170	ctc Leu	ccc Pro	589
cat His	gcc Ala	atc Ile 175	ctg Leu	cgt Arg	ctg Leu	gac Asp	ctg Leu 180	gct Ala	ggc Gly	cgg Arg	gac Asp	ctg Leu 185	act Thr	gac Asp	tac Tyr	637
ctc Leu	atg Met 190	aag Lys	atc Ile	ctc Leu	acc Thr	gag Glu 195	cgc Arg	ggc Gly	tac Tyr	agc Ser	ttc Phe 200	acc Thr	acc Thr	acg Thr	gcc Ala	685
gag Glu 205	cgg Arg	gaa Glu	atc Ile	gtg Val	cgt Arg 210	gac Asp	att Ile	aag Lys	gag Glu	aag Lys 215	ctg Leu	tgc Cys	tac Tyr	gtc Val	gcc Ala 220	733
ctg Leu	gac Asp	ttc Phe	gag Glu	caa Gln 225	gag Glu	atg Met	gcc Ala	acg Thr	gct Ala 230	gct Ala	tcc Ser	agc Ser	tcc Ser	tcc Ser 235	ctg Leu	781
gag Glu	aag Lys	agc Ser	tac Tyr 240	gag Glu	ctg Leu	cct Pro	gac Asp	ggc Gly 245	cag Gln	gtc Val	atc Ile	acc Thr	att Ile 250	ggc Gly	aat Asn	829
gag Glu	cgg Arg	ttc Phe 255	cgc Arg	tgc Cys	cct Pro	gag Glu	gca Ala 260	ctc Leu	ttc Phe	cag Gln	cct Pro	tcc ser 265	ttc Phe	ctg Leu	ggc Gly	877
atg Met	gag Glu 270	tcc Ser	tgt Cys	ggc Gly	atc Ile	cac His 275	gaa Glu	act Thr	acc Thr	ttc Phe	aac Asn 280	ser	atc Ile	atg Met	aag Lys	925
tgt Cys 285	gac Asp	gtg Val	gac Asp	atc Ile	cgc Arg 290	aaa Lys	gac Asp	ctg Leu	tac Tyr	gcc Ala 295	Asn	aca Thr	gtg Val	ctg Leu	tct Ser 300	973
ggc Gly	ggc Gly	acc Thr	acc Thr	atg Met 305	tac Tyr	cct Pro	ggc Gly	att Ile	gcc Ala 310	gac Asp	agg Arg	atg Met	cag Gln	aag Lys 315	gag Glu	1021
atc Ile	act Thr	gcc Ala	ctg Leu 320	Ala	ccc Pro	agc Ser	aca Thr	atg Met 325	aag Lys	atc Ile	aag Lys	atc Ile	att Ile 330	gct Ala	cct Pro	1069
cct Pro	gag Glu	cgc Arg 335	Lys	tac Tyr	tcc Ser	gtg Val	tgg Trp 340	Ile	ggc	ggc Gly	tcc Ser	atc Ile 345	ctg Leu	gcc Ala	tcg Ser	1117
ctg Leu	tcc ser 350	Thr	ttc Phe	cag Gln	cag Gln	atg Met 355	Trp	atc Ile	ago Ser	aag Lys	cag Gln 360	Glu	tat Tyr	gac Asp	gag Glu	1165
tcc Ser	ggc	ccc Pro	tcc Ser	ato Ile	gtc Val	cac His	cgc	aaa Lys	tgc Cys Pa	ttc Phe ige 5	*	gcg	gact	atg		1211

SEQLIST.TXT 375 365 actcaggatt taaaaactgg aacggtgaag gtgacagcag tcggttggag cgagcatccc 1391 ccaaagttca caatgtggcc gaggactttg attgcacatt gttgttttt taatagtcat 1451 tccaaatatg agatgcattg ttacaggaag tcccttgcca tcctaaaagc caccccactt 1511 ctttcgtgta aattatgtaa tgcaaaattt ttttaatctt cgccttaata ctttttatt 1631 ttgttttatt ttgaatgatg agccttcgtg ccccccttc cccctttttg tccccaact 1691 tgaagatgtat gaaggctttt ggtctcctg ggagtgggtg gaggcagcca gggcttacct 1751 gtacactgac ttgaagaccag ttgaataaaa gtgcacacct ta <210> 10 <211> 2242 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (51)...(991) <223> chemokine (C C motif) receptor 2 (CCR2) mRNA coding region <400> 10 acagagaaag tggattgaac aaggacgcat ttccccagta catccacaac atg ctg 56 Met Leu tcc aca tct cgt tct cgg ttt atc aga aat acc aac gag agc ggt gaa Ser Thr Ser Arg Ser Arg Phe Ile Arg Asn Thr Asn Glu Ser Gly Glu 104 gaa gtc acc acc ttt ttt gat tat gat tac ggt gct ccc tgt cat aaa Glu Val Thr Thr Phe Phe Asp Tyr Asp Tyr Gly Ala Pro Cys His Lys 20 25 30 152 ttt gac gtg aag caa att ggg gcc caa ctc ctg cct ccg ctc tac tcg Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser 200 ctg gtg ttc atc ttt ggt ttt gtg ggc aac atg ctg gtc gtc ctc atc Leu Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Val Leu Ile 248 tta ata aac tgc aaa aag ctg aag tgc ttg act gac att tac ctg ctc Leu Ile Asn Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr Leu Leu 70 75 80 296 aac ctg gcc atc tct gat ctg ctt ttt ctt att act ctc cca ttg tgg Asn Leu Ala Ile Ser Asp Leu Leu Phe Leu Ile Thr Leu Pro Leu Trp 344 gct cac tct gct gca aat gag tgg gtc ttt ggg aat gca atg tgc aaa Ala His Ser Ala Ala Asn Glu Trp Val Phe Gly Asn Ala Met Cys Lys 392 tta ttc aca ggg ctg tat cac atc ggt tat ttt ggc gga atc ttc ttc Leu Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile Phe Phe 115 120 125 130 440 atc atc ctc ctg aca atc gat aga tac ctg gct att gtc cat gct gtg Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val 488 ttt gct tta aaa gcc agg acg gtc acc ttt ggg gtg gtg aca agt gtg Phe Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr Ser Val 150 155 160 536

SEQLIST.TXT

								3	LQLI	31.1	^ '					
atc Ile	acc Thr	tgg Trp 165	ttg Leu	gtg Val	gct Ala	gtg Val	ttt Phe 170	gct Ala	tct Ser	gtc Val	cca Pro	gga Gly 175	atc Ile	atc Ile	ttt Phe	584
act Thr	aaa Lys 180	tgc Cys	cag Gln	aaa Lys	gaa Glu	gat Asp 185	tct Ser	gtt Val	tat Tyr	gtc Val	tgt Cys 190	ggc Gly	cct Pro	tat Tyr	ttt Phe	632
cca Pro 195	cga Arg	gga Gly	tgg Trp	aat Asn	aat Asn 200	ttc Phe	cac His	aca Thr	ata Ile	atg Met 205	agg Arg	aac Asn	att Ile	ttg Leu	ggg Gly 210	680
ctg Leu	gtc Val	ctg Leu	ccg Pro	ctg Leu 215	ctc Leu	atc Ile	atg Met	gtc Val	atc Ile 220	tgc Cys	tac Tyr	tcg Ser	gga Gly	atc Ile 225	ctg Leu	728
aaa Lys	acc Thr	ctg Leu	ctt Leu 230	cgg Arg	tgt Cys	cga Arg	aac Asn	gag Glu 235	aag Lys	aag Lys	agg Arg	cat His	agg Arg 240	gca Ala	gtg Val	776
aga Arg	gtc Val	atc Ile 245	ttc Phe	acc Thr	atc Ile	atg Met	att Ile 250	gtt Val	tac Tyr	ttt Phe	ctc Leu	ttc Phe 255	tgg Trp	act Thr	ccc Pro	824
tat Tyr	aac Asn 260	att Ile	gtc Val	att Ile	ctc Leu	ctg Leu 265	aac Asn	acc Thr	ttc Phe	cag Gln	gaa Glu 270	Phe	ttc Phe	ggc Gly	ctg Leu	872
agt Ser 275	Asn	tgt Cys	gaa Glu	agc Ser	acc Thr 280	Ser	caa Gln	ctg Leu	gac Asp	caa Gln 285	gcc Ala	acg Thr	cag Gln	gtg Val	aca Thr 290	920
gag Glu	act Thr	ctt Leu	ggg Gly	atg Met 295	Thr	cac His	tgc Cys	tgc Cys	atc Ile 300	Asn	ccc Pro	atc Ile	atc Ile	tat Tyr 305	gcc Ala	968
ttc Phe	gtt Val	ggg Gly	gag Glu 310	aag Lys	ttc Phe	aga Arg	ag	cctt	tttc	ac a	tagc	tctt	g gc	tgta	ggat	1021
agtagaa ggattaaggatt gaatttaaggatt gaatttaaggatt	gactiagectagectagectagectagectagectagectagect	aca agca accata gcata ggta tcca aggca accata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta ccata ggta gg	caag cttcggaaaatttaaatttgaacttttgaa	gactaggactagggctcaggttcaggttcaggctcaggctcaggctcaggctcatttgtaaggccaaaccccacttttaacctct	ccatage ggattaaaatogaaa	cgata aggaagaagta agttagaaggtgaaggtgaaggtgaaggtgaaggtaaggtgaaggtgaaggtgaatcaatc	ggtc gggagt gatgat gatgat aaattg gtcacag gaagg aagatg attto	gc gga gcttaattttcgtat	gaaa aggaga atta taggt taggg atatt gatac tagaa tagaa tagaa	agga acagga gcta gcta aggctc gctct gcta gctct gcta gctctg tcta gcta	aagaatgtgaggaacatgtgaggaacatgttgaggatcattgagggttgagggggggg	tcaactgattgagtattgagtttggagtttggagttaggagttaggagttaggagttaggagttaggagaggag	tagatacaaaatcattataagaataataataagaataataataataataataa	gcag gtcttggttttagttcagtcttagttcagttttcagttttcagttttcagttttcagttagtt	tgtgaa agcccc tctacg atttcaa tagttt agcttt atagctg catgctg catgcta atgctg caggct acaggct acagct accaat	1141 1201 1261 1321 1381 1441 1501 1621 1681 1741 1801 1861 1921 1981 2041 2101 2161
<2. <2.	LO> 1 L1> 6 L2> E L3> F	518 DNA	sapi	iens												

Page 7

SEQLIST.TXT

<222)> > CD !> (1 !> Ly)	(618 toxi	i) n al	pha	(LTA	.) mR	ina c	odir	ıg re	gion					
atn)> 11 aca Thr	cca	cct Pro	gaa Glu 5	cgt Arg	ctc Leu	ttc Phe	ctc Leu	cca Pro 10	agg Arg	gtg Val	tgt Cys	ggc Gly	acc Thr 15	acc Thr	48
cta Leu	cac His	ctc Leu	ctc Leu 20	ctt Leu	ctg Leu	ggg Gly	ctg Leu	ctg Leu 25	ctg Leu	gtt Val	ctg Leu	ctg Leu	cct Pro 30	ggg Gly	gcc Ala	96
cag Gln	ggg Gly	ctc Leu 35	cct Pro	ggt Gly	gtt Val	ggc Gly	ctc Leu 40	aca Thr	cct Pro	tca Ser	gct Ala	gcc Ala 45	cag Gln	act Thr	gcc Ala	144
cgt Arg	cag Gln 50	cac His	ccc Pro	aag Lys	atg Met	cat His 55	ctt Leu	gcc Ala	cac His	agc Ser	acc Thr 60	ctc Leu	aaa Lys	cct Pro	gct Ala	192
gct Ala 65	cac His	ctc Leu	att Ile	gga Gly	gac Asp 70	ccc Pro	agc Ser	aag Lys	cag Gln	aac Asn 75	tca Ser	ctg Leu	ctc Leu	tgg Trp	aga Arg 80	240
gca Ala	aac Asn	acg Thr	gac Asp	cgt Arg 85	gcc Ala	ttc Phe	ctc Leu	cag Gln	gat Asp 90	ggt Gly	ttc Phe	tcc Ser	ttg Leu	agc Ser 95	aac Asn	288
aat Asn	tct Ser	ctc Leu	ctg Leu 100	gtc Val	ccc Pro	acc Thr	agt Ser	ggc Gly 105	atc Ile	tac Tyr	ttc Phe	gtc Val	tac Tyr 110	tcc Ser	cag Gln	336
gtg Val	gtc Val	ttc Phe 115	tct Ser	ggg Gly	aaa Lys	gcc Ala	tac Tyr 120	tct Ser	ccc Pro	aag Lys	gcc Ala	acc Thr 125	tcc Ser	tcc Ser	cca Pro	384
ctc Leu	tac Tyr 130	ctg Leu	gcc Ala	cat His	gag Glu	gtc Val 135	cag Gln	ctc Leu	ttc Phe	tcc Ser	tcc Ser 140	cag Gln	tac Tyr	ccc Pro	ttc Phe	432
cat His 145	gtg Val	cct Pro	ctc Leu	ctc Leu	agc Ser 150	tcc Ser	cag Gln	aag Lys	atg Met	gtg Val 155	tat Tyr	cca Pro	ggg Gly	ctg Leu	cag Gln 160	480
gaa Glu	ccc Pro	tgg Trp	ctg Leu	cac His 165	tcg Ser	atg Met	tac Tyr	cac His	ggg Gly 170	Ala	gcg Ala	ttc Phe	cag Gln	ctc Leu 175	inr	528
cag Gln	gga Gly	gac Asp	cag Gln 180	Leu	tcc Ser	acc Thr	cac His	aca Thr 185	Asp	ggc Gly	atc Ile	ccc Pro	cac His 190	cta Leu	gtc Val	576
ctc Leu	agc Ser	cct Pro 195	agt Ser	act Thr	gtc Val	ttc Phe	ttt Phe 200	Gly	gcc Ala	ttc Phe	gct Ala	ctg Leu 205	*			618

<210> 12 <211> 894 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (9)...(743) SEQLIST.TXT <223> Lymphotoxin beta (LTB) mRNA coding region

<400 cagt	> 12 ctca	ato	ggg Gly	gca Ala	ctg Leu	ggg Gly 5	ctg Leu	gag Glu	ı ggc ı Gly	agg Arg	ggt Gly 10	GIY	agg Arg	ctc Leu	cag Gln	50
ggg Gly 15	agg Arg	ggt Gly	tcc Ser	ctc Leu	ctg Leu 20	cta Leu	gct Ala	gtg Va l	gca Ala	gga Gly 25	gcc Ala	act Thr	tct Ser	ctg Leu	gtg Val 30	98
acc Thr	ttg Leu	ttg Leu	ctg Leu	gcg Ala 35	gtg va l	cct Pro	atc Ile	act Thr	gtc Val 40	ctg Leu	gct Ala	gtg Val	ctg Leu	gcc Ala 45	tta Leu	146
gtg Val	ccc Pro	cag Gln	gat Asp 50	cag Gln	gga Gly	gga Gly	ctg Leu	gta Val 55	acg Thr	gag Glu	acg Thr	gcc Ala	gac Asp 60	ccc Pro	ggg Gly	194
gca Ala	cag Gln	gcc Ala 65	cag Gln	caa Gln	gga Gly	ctg Leu	ggg Gly 70	ttt Phe	cag Gln	aag Lys	ctg Leu	cca Pro 75	gag Glu	gag Glu	gag Glu	242
cca Pro	gaa Glu 80	aca Thr	gat Asp	ctc Leu	agc Ser	ccc Pro 85	ggg Gly	ctc Leu	cca Pro	gct Ala	gcc Ala 90	cac His	ctc Leu	ata Ile	ggc Gly	290
gct Ala 95	ccg Pro	ctg Leu	aag Lys	ggg Gly	cag Gln 100	ggg Gly	cta Leu	ggc Gly	tgg Trp	gag Glu 105	acg Thr	acg Thr	aag Lys	gaa Glu	cag Gln 110	338
gcg Ala	ttt Phe	ctg Leu	acg Thr	agc Ser 115	ggg Gly	acg Thr	cag Gln	ttc Phe	tcg ser 120	gac Asp	gcc Ala	gag Glu	ggg Gly	ctg Leu 125	gcg Ala	386
ctc Leu	ccg Pro	cag Gln	gac Asp 130	ggc Gly	ctc Leu	tat Tyr	tac Tyr	ctc Leu 135	tac Tyr	tgt Cys	ctc Leu	gtc Val	ggc Gly 140	tac Tyr	cgg Arg	434
ggc Gly	cgg Arg	gcg Ala 145	ccc Pro	cct Pro	ggc Gly	ggc Gly	ggg Gly 150	gac Asp	ccc Pro	cag Gln	ggc Gly	cgc Arg 155	tcg Ser	gtc Val	acg Thr	482
ctg Leu	cgc Arg 160	agc Ser	tct Ser	ctg Leu	tac Tyr	cgg Arg 165	gcg Ala	ggg Gly	ggc Gly	gcc Ala	tac Tyr 170	ggg Gly	ccg Pro	ggc Gly	act Thr	530
ccc Pro 175	gag Glu	ctg Leu	ctg Leu	ctc Leu	gag Glu 180	ggc Gly	gcc Ala	gag Glu	acg Thr	gtg Val 185	act Thr	cca Pro	gtg Val	ctg Leu	gac Asp 190	578
ccg Pro	gcc Ala	agg Arg	aga Arg	caa Gln 195	ggg Gly	tac Tyr	ggg Gly	cct Pro	ctc Leu 200	Trp	tac Tyr	acg Thr	agc Ser	gtg Val 205	ggg Gly	626
ttc Phe	ggc Gly	ggc Gly	ctg Leu 210	gtg Val	cag Gln	ctc Leu	cgg Arg	agg Arg 215	ggc Gly	gag Glu	agg Arg	gtg Val	tac Tyr 220	gtc Val	aac Asn	674
atc Ile	agt Ser	cac His 225	ccc Pro	gat Asp	atg Met	gtg Val	gac Asp 230	Phe	gcg Ala	aga Arg	ggg Gly	aag Lys 235	acc Thr	ttc Phe	ttt Phe	722
ggg Gly	gcc Ala 240	va.	atg Met	gtg Val	ggg Gly	tga	999	aata	tga	gtgc	gtgg	tg c	gagt	gcgt	g	773
aatattgggg gcccggacgc ccaggacccc atggcagtgg gaaaaatgta ggagactgtt 833												833				

SEQLIST.TXT tggaaattga ttttgaacct gatgaaaata aagaatggaa agcttcagtg ctgccgataa 893 <210> 13 <211> 327 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (1)...(327) <223> FKBP1A open reading frame for FK506 Binding Protein 1A (macrophilin 12) mRNA coding region <400> 13 atg gga gtg cag gtg gaa acc atc tcc cca gga gac ggg cgc acc ttc Met Gly Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe 1 5 10 48 ccc aag cgc ggc cag acc tgc gtg gtg cac tac acc ggg atg ctt gaa Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu 20 25 30 96 gat gga aag aaa ttt gat tcc tcc cgg gac aga aac aag ccc ttt aag Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys 35 144 ttt atg cta ggc aag cag gag gtg atc cga ggc tgg gaa gaa ggg gtt Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val 192 gcc cag atg agt gtg ggt cag aga gcc aaa ctg act ata tct cca gat Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp 65 70 75 80 240 tat gcc tat ggt gcc act ggg cac cca ggc atc atc cca cca cat gcc Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala 288 327 act ctc gtc ttc gat gtg gag ctt cta aaa ctg gaa tga Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu * <210> 14 <211> 21 <212> DNA <213> Homo sapiens <220> <221> primer_bind <222> (1)...(21) <223> Amplification primer for human LTA - forward <400> 14 21 acaccacctg aacgtctctt c <210> 15 <211> 21 <212> DNA <213> Homo sapiens <220> <221> primer_bind
<222> (1)...(21)
<223> Amplification primer for human LTA - reverse <400> 15

WO 2005/	040416	PCT/EP2004/011124
	SEQLIST.TXT	
tctcaatccc to		21
<210> 16 <211> 24 <212> DNA <213> Homo sa	apiens	
<220> <221> primer_ <222> (1)(<223> Sequence	_bind (24) cing primer for human LTA - forward	
<400> 16 tcagccaaac c	ttgagccct agag	24
<210> 17 <211> 34 <212> DNA <213> Homo sa	apiens	
<220> <221> primer <222> (1)(<223> Sequence	_bind (34) cing primer for human LTA - reverse	
<400> 17 atgtttacca at	tgaggtgag cagcaggttt gcgg	34
<210> 18 <211> 20 <212> DNA <213> Homo sa	apiens	
<220> <221> primer <222> (1) <223> Amplif	_bind (20) ication primer for human TNF - forward	
<400> 18 tgggagtgag a	acttcccag	20
<210> 19 <211> 20 <212> DNA <213> Homo sa	apiens	
<220> <221> primer <222> (1)(<223> Amplif	_bind (20) ication primer for human TNF - reverse	
<400> 19 tgagctcatc tg	ggaggaagc	20
<210> 20 <211> 20 <212> DNA <213> Homo sa	apiens	
<220> <221> primer <222> (1)(<223> Sequence	_bind (20) cing primer for human TNF - forward	
<400> 20 tgggagtgag aa	acttcccag	20
<210> 21		

SEQLIST.TXT

```
<211> 20
<212> DNA
<213> Homo sapiens
<220>
<221> primer_bind <222> (1)...(20)
<223> Sequencing primer for human TNF - reverse
<400> 21
                                                                           20
cttaaacgtc ccctgtattc
<210> 22
<211> 894
<212> DNA
<213> Homo sapiens
<220>
<221> variation <222> (9)...(743)
<223> LTB*1 (G) polymorphism coding region
<400> 22
cagtctcaat gggggcactg gggctggagg gcaggggtgg gaggctccag gggaggggtt 60 ccctcctgct agctgtggca ggagccactt ctctggtgac cttgttgctg gcggtgccta 120
```